

ABSTRACT OF THE DISCLOSURE

A novel loop/slurry olefin polymerization process is provided which produces ultra high molecular weight ethylene homopolymers and ultra high molecular weight ethylene copolymers. Catalyst systems used are selected from the group consisting of inorganic oxide supported titanium-containing catalyst systems, inorganic oxide supported organo-zirconium catalyst systems and inorganic oxide supported organo-hafnium catalyst systems.